

**Title**

Yang, J., **Zhou, H.**, Interface Waves between Two Piezoelectric Half-Spaces with a Semiconductor Film, Journal of Zhejiang University Science, 6A, no. 2, 2005, pp. 90-96

**Year of publication**

2005

**CRES Author**

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**Abstract**

In this work propagation of anti-plane (SH) waves in two piezoelectric ceramic half-spaces with a thin layer of a semiconducting material between the half-spaces is studied, and wave attenuation and dispersion caused by semiconduction as well as wave amplification by a biasing electric field are examined.

**Keywords**

Piezoelectricity, Semiconductor, Wave, Attenuation, Dispersion